

We claim:

1. A lens assembly used in a camera, comprising:

a lens holder; and

a plurality of lenses received in the lens holder; wherein

the lens holder is split into at least two halves along its longitudinal axis, a plurality of partition platforms are formed inside at least one half to define at least one room for accommodating and securing the plurality of lenses, an opening is formed through each partition platform.

2. The lens assembly of claim 1, wherein each half of the lens holder has a top portion and a bottom portion, and the partition platforms are parallel to both the top portion and the bottom portion.

3. The lens assembly of claim 2, wherein a cutout is defined through the top portion.

4. The lens assembly of claim 3, wherein an opening is defined through the bottom portion.

5. The lens assembly of claim 4, wherein the openings of the partition platform are aligned with the openings of the top portion and the bottom portion.

6. The lens assembly of claim 1, wherein the lens holder has a cylindrical body, and a plurality of screw threads is formed on an outside surface of the body.

7. The lens assembly of claim 1, wherein a plurality of mounting pins is formed on one of the two halves, and a plurality of mounting holes corresponding to the mounting pins is defined in the other of the two halves.

8. The lens assembly of claim 7, wherein one half of the lens holder is secured with the other half of the lens holder by the mounting pins inserting into the mounting holes.

9. The lens assembly of claim 3, wherein the openings form a funnel-shaped opening in the top portion of the holder when one half is assembled with the other half.

10. A lens holder used in a camera, comprising:

a first housing half having a first plurality of partition platforms;

a second housing half being complementary to the first housing half, the second housing having a second plurality of partition platforms; wherein

when the first housing half is assembled with the second housing half to form a complete housing, the partition platforms of the first housing half and the partition platforms of the second housing half together define a plurality of rooms inside said complete housing for receiving a plurality of lenses and define openings for passage of light.

11. The lens holder of claim 10, wherein each of the housing halves comprises a top portion, a bottom portion, and a semi-cylindrical wall extending therebetween, with a joining edge.

12. The lens holder of claim 11, wherein a plurality of locking pins protrudes from the first housing half, and a corresponding plurality of mounting holes is defined in the second housing half.

13. The lens holder of claim 12, wherein a plurality of screw threads is formed on an outside surface of the semi-cylindrical walls.

14. The lens holder of claim 13, wherein the top portion of each housing half has a semi-circular opening therethrough, and the bottom portion of each housing half has a semi-circular opening therethrough.

15. The lens holder of claim 14, wherein a funnel-shaped opening is formed through the top portion of said complete housing, and a circular opening is formed through the bottom portion of said complete housing when the first housing half is assembled with the second housing half.

16. The lens holder of claim 14, wherein each partition platform has a semi-circular opening which is aligned and in communication with the semi-circular openings through the top portion and the bottom portion.

17. The lens holder of claim 10, wherein the camera is a digital camera which is built in a mobile phone.

18. A lens assembly comprising:

- a lens holder defining a through hole along an axial direction thereof;

- a plurality of lenses axially spatially received in said lens holder to guide light passing through said through hole;

- said lens holder including at least first and second parts assembled to each other, said first part defining at least one partition thereof and defining at least one lateral opening exposed to an exterior before said second part is assembled to the first part; wherein

- at least one lens is inserted into a corresponding cavity derived from said at least one partition from the exterior through said lateral opening before said second part is assembled to the first part, and successively said lateral opening and said lens are hidden from the exterior after said second part is assembled to the first part.

19. The assembly of claim 18, wherein said first part and said second part are assembled in a lateral direction perpendicular to said axial direction.
20. The assembly of claim 18, wherein said first part and said second part are dimensioned and configured similar to each other.